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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,938	12/23/2003	Lu Jing	A3-239 US	9380
23683	7590	09/08/2004	EXAMINER	
MOLEX INCORPORATED 2222 WELLINGTON COURT LISLE, IL 60532			NGUYEN, PHUONGCHI T	
			ART UNIT	PAPER NUMBER
			2833	

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/743,938

Applicant(s)

JING, LU

Examiner

Phuongchi Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## **DETAILED ACTION**

### ***Specification***

1. This application is in condition for allowance except for the following formal matters:

Terminology "dimensions" should be changed into -- diameters-- .

Page 7, lines 12-18, "a cylindrical stopper 12b", "aperture 11b"; "a semi-conical 12c", etc. are not shown in any drawings. These are just examples. Entire specification needs to be reviewed.

Claim 1, lines 13-14, "the contact element" should be changed to -- the contact pin -- . Terminology needs to be consistent. Appropriate correction is required.

### ***Drawings***

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, "stopper has threads which are threaded into threads in the aperture" in claim 5, lines 1-2, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

### ***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, lines 3-4, it is unclear where is second inner dimensions of the crimpable lip to be larger than the first inner dimensions of the hollow chamber?

Claim 1, lines 4-5, “the lip is,..., forming crimped inner dimensions”. Is the “crimped inner dimensions” to be the “first” crimped inner dimensions. Thus, how can the lip have two inner dimensions.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1-4, 6, 8 and 9 rejected under 35 U.S.C. 102(e) as being anticipated by Barabi (US6559665B1).

In regarding to claim 1, Barabi discloses a compressible pin assembly comprising (attachment 1) a barrel (29) with a hollow chamber (53) having a cross section (C ) with first inner diameters (D4), a closed end (E), and an open end (A), the open end (A) forming a crimpable lip (H) with crimped (second) inner diameters (D2) and, when the lip (H) is crimped radially inwardly, forming crimped inner diameters (D2); a contact pin (49) having a pin body (51) with outer diameters (D1) smaller than the first inner diameters (D4) of the cross section (C ) of the hollow chamber (53) allowing for slidable movement of the pin body (51) within the hollow chamber (53), outer diameters (D3 of 49) being larger than the crimped inner diameters (D2) of the lip (H) preventing movement of the pin body (51) beyond the lip (H) after the lip (H) is crimped, the contact pin (49) further having a contact end (75) extending from the pin body (49) through the lip (H) of the open end (A) of the barrel (29); an elastic element (55) contained in the hollow chamber (53) against the closed end (E) of the barrel (29) to spring-bias the pin

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body (51) of the contact pin (49) against the lip (H) so that the contact pin (49) extends beyond the barrel (29); an aperture (Q) passing through the hollow chamber (53) of the barrel (29) with diameters (D5) less than the diameters of the first inner diameters (D4) of the hollow chamber (53), and a stopper (58) designed to be placed into the aperture (Q).

In regarding to claim 2, Barabi discloses the compressible pin assembly wherein the aperture (Q) is located in a circumferential wall (W1) of the hollow chamber (53).

In regarding to claim 3, Barabi discloses the compressible pin assembly wherein the aperture (Q) is located in the closed end (E) of the hollow chamber (53).

In regarding to claim 4, Barabi discloses the compressible pin assembly wherein the stopper (58) is press fit in the aperture (Q).

In regarding to claim 6, Barabi discloses the compressible pin assembly wherein the stopper (58) has a cylindrical outer wall (O) and the aperture (Q) has a cylindrical inner wall (of W1).

In regarding to claim 8, Barabi discloses the compressible pin assembly of claim 3 wherein the stopper (58) and aperture (Q) have an I shaped cross section where the aperture (Q) is crimped over the stopper (58).

In regarding to claim 9, Barabi discloses the compressible pin assembly wherein the cross section (C) of the hollow chamber (53) of the barrel (29) is circular.

***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would

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have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over

In regarding to claim 5, Barabi discloses the invention, but lacks a stopper having thread.

It would have been obvious to one having ordinary skill at the time the invention was made to modify the stopper of Barabi by having thread corresponding to the thread in the aperture for increasing a good connection between the stopper and the aperture.

***Allowable Subject Matter***

9. Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

10. The following is a statement of reasons for the indication of allowable subject matter: in regarding to claim 7, none of prior art teaches or suggests a compressible pin assembly comprising the stopper has a semi-conical outer wall and an aperture has a semi-conical inner edge.

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Florence, Jr et al (2004/0008048A1), Winter et al (US6685492B2), Ogawa (US6340320B1), Kosmala (US6758682B1) are cited to show in the compressible pin assembly having an elastic spring and hollow chamber with the contact pins.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuongchi Nguyen whose telephone number is (571) 272-2012. The examiner can normally be reached on 8:00AM-4:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571) 272-2800 ext 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PCN

August 20, 2004

  
**ROSS GUSHI**  
**PRIMARY EXAMINER**